

Fire-resistant backing strip for bitumen roofing strips, etc. - comprises glass fibre and synthetic fibr mats, stitched together and stabilised with polymer-free, low formalde hyde MF precondensat

Patent Assignee: HOECHST AG (FARH .)

Inventor: ADAM W; HEIDEL P

Number of Countries: 018 Number of Patents: 012

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3901152	A	19900719	DE 3901152	A	19890117	199030 B
EP 379100	A	19900725	EP 90100667	A	19900113	199030
AU 9047967	A	19900726				199038
NO 9000231	A	19900813				199038
CA 2007882	A	19900717				199040
JP 2233240	A	19900914	JP 908083	A	19900117	199043
FI 9000214	A	19900718				199045
ZA 9000284	A	19901128	ZA 90284	A	19900116	199101
US 5171629	A	19921215	US 90464996	A	19900116	199301
NO 173515	B	19930913	NO 90231	A	19900116	199342
EP 379100	B1	19950510	EP 90100667	A	19900113	199523
DE 59009035	G	19950614	DE 509035	A	19900113	199529
			EP 90100667	A	19900113	

Priority Applications (No Type Date): DE 3901152 A 19890117

Cited Patents: DE 3625443; EP 176848; EP 176849; EP 281921; US 4404250; US 4425399; US 4430380; US 4609709

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 379100	A				
					Designated States (Regional): AT BE CH DE FR GB IT LI NL SE
US 5171629	A	3		B32B-017/06	
NO 173515	B			D04H-001/48	Previous Publ. patent NO 9000231
EP 379100	B1 G	6		D04H-001/64	
					Designated States (Regional): AT CH DE LI SE
DE 59009035	G			D04H-001/64	Based on patent EP 379100

Abstract (Basic): DE 3901152 A

Backing strip (I) of flat fibrous material consists of a glass fibre mat (A) and a synthetic fibre mat (B), stitched together and stabilised with a polymer-free, low-formaldehyde melamine-formaldehyde (MF) precondensate (II). (I) is produced by stitching (A) (opt. pre-stabilised) and (B) together and impregnating the 2-layer structure with a mainly aq. soln. of (II) contg. 0.5-5 wt.% of a normal hardener, squeezing out resin to obtain a resin uptake of 5-40 wt.% and then curing at elevated temp.

More specifically, (B) is a polyester fibre mat pref. a spun bond, (II) has M:F mol. ratio (1:1.0)-(1:3.5), (II) is partly etherated and/or (pref.) sulphamate-modified, (II) is partly etherated with lower alcohols, (II) has 0.2-0.85 alkane-ether gps./mol. (F), M:F mol. ratio (1:2)-(1:3) and 0.5-0.8 mol. methyl ether gps./mol. (F), or (II) contains 20 wt.% sulphamate (calculated as Na sulphamate) w.r.t. solid resin, pref. 5-15 wt.% Na sulphamate and M:F mol. ratio is (1:1-2)-(1:2).

USE/ADVANTAGE - (I) is useful as a substrate for the prodn. of bituminised roofing and sealing strips (claimed). (I) has high mechanical stability even at high temp. (e.g. 180 deg.C), it can be modified with large amts. of fire retardants to give flexible roofing strips etc. with very good fire resistance (prior-art fire-resistant materials have inadequate flexibility), tear strength is 25% higher than that of strips stabilised with polyacrylate binders.

Dwg. 0/0

Abstract (Equivalent): EP 379100 B

A carrier web of a sheet-like fibre material composed of a glass fibre mat and a mat of synthetic fibres which are needled to one another and end-consolidated with a polymer-free melamine-formaldehyde

precondensate which has a molar ratio of melamine to formaldehyde of 1:1.0 to 1:3.5.

Dwg.0/0

Abstract (Equivalent): US 5171629 A

Sheet-like, fibrous carrier web comprises (i) a glass fibre mat, and (ii) a synthetic fibrous mat, (i) and (ii) are needled together and consolidated with a polymer-free melamine- formaldehyde precondensate having a low content of free formaldehyde and a molar ratio of melamine:formaldehyde of 1:1.0-1:3.5 and is sulphamate-modified and opt. partly etherified. Pref. (ii) is a spun-bonded material. Precondensate is partly etherified with a lower alcohol contg. 0.6-0.8 mol. methyl ether gps. per mol. of formaldehyde. USE/ADVANTAGE - Used for bituminous roofing and sealing web. (Dwg.0/0)

Derwent Class: A21; A23; A93; F04; P63; P73; Q43; Q45

International Patent Class (Main): B32B-017/06; D04H-001/48; D04H-001/64

International Patent Class (Additional): B27N-009/00; B32B-005/06;

B32B-011/02; B32B-017/12; B32B-027/00; B32B-031/14; C08G-012/00;

D04H-001/42; D04H-005/02; D06M-017/00; D06N-005/00; D06N-007/00;

E04D-005/02; E04D-005/10

?map anpry temp s2

1 Select Statement(s), 1 Search Term(s)

Serial#TD649

?exs

Executing TD649

S3 1 AN=DE 3901152

?s s3 not s2

1 S3

1 S2

S4 0 S3 NOT S2

?s pn=de 2622206

S5 1 PN=DE 2622206

?t 5/7

5/7/1

DIALOG(R)File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

001865730

WPI Acc No: 1977-86764Y/197749

**Glass fibre reinforced material mfr. - uses bonding adhesive to secure**

**parallel fibre strands to nonwoven carrier**

Patent Assignee: HEUSEL W (HEUS-I)

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 2622206	A	19771201				197749 B

Priority Applications (No Type Date): DE 2622206 A 19760519

Abstract (Basic): DE 2622206 A

In the mfr. of a reinforced material, parallel strands of glass fibre are bonded to a non-woven felting of unorientated staple fibres, using an adhesive bonding agent to hold the layers together. The parallel fibre strands are laid longitudinally, horizontally or at an angle of about 45 degrees on the carrier fabric.

Two layers of glass fibre strands can also be used, with the strands in one layer being at about 90 degrees to the strands in the other layer, and the layer(s) are clad on both sides by a matting of glass fibre staple. The application of the adhesive bonding agent is by passing through a bath of the bonding agent. The carrier fabric is developed in strip or belting form with the layer of parallel glass fibre strands being applied and moved with the carrier strip.

Derwent Class: F04  
International Patent Class (Additional): D04H-001/58  
?map anpryy temp s5

1 Select Statement(s), 1 Search Term(s)  
Serial#TD650

?exs

Executing TD650

S6 1 AN=DE 2622206  
?s s6 not s5  
1 S6  
1 S5  
S7 0 S6 NOT S5  
?s pn=de 3435643  
S8 1 PN=DE 3435643  
?t 8/7

8/7/1

DIALOG(R) File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

004591927

WPI Acc No: 1986-095271/198615

Laminate for roof sheeting - comprising synthetic fibre fleece and  
mineral fleece needled together to prevent delamination

Patent Assignee: HOECHST AG (FARH )

Inventor: GREISER W; PLOETZ K; WAGNER H; ZERFASS K; POLTZ K; ZERFASS K C

Number of Countries: 017 Number of Patents: 014

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 176847	A	19860409				198615 B
DE 3435643	A	19860410				198616
AU 8547975	A	19860410				198622
JP 61084238	A	19860428	JP 85212735	A	19850927	198623
NO 8503811	A	19860428				198624
ZA 8507469	A	19860402	ZA 857469	A	19850927	198631
FI 8503681	A	19860329				198633
US 5017426	A	19910521	US 90481885	A	19900220	199123
CA 1297281	C	19920317				199217
EP 176847	B1	19920701	EP 85111672	A	19850916	199227
DE 3586276	G	19920806	DE 3586276	A	19850916	199233
			EP 85111672	A	19850916	
NO 173665	B	19931004	NO 853811	A	19850927	199345
JP 93079020	B	19931101	JP 85212735	A	19850927	199346
FI 94937	B	19950815	FI 853681	A	19850925	199538

Priority Applications (No Type Date): DE 3435643 A 19840928

Cited Patents: A3...8917; DE 7739489; FR 1457339; No-SR.Pub; US 4522876

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 176847 A G 6

Designated States (Regional): AT BE CH DE FR GB IT LI NL SE

EP 176847 B1 G 4 D04H-001/46

Designated States (Regional): AT BE CH DE FR GB IT LI NL SE

DE 3586276 G D04H-001/46 Based on patent EP 176847

NO 173665 B D06N-005/00 Previous Publ. patent NO 8503811

JP 93079020 B 3 B32B-005/06 Based on patent JP 61084238

FI 94937 B B32B-005/06 Previous Publ. patent FI 8503681

Abstract (Basic): EP 176847 A

Laminate for use as the support sheet for roofing sheeting and  
sealing sheets comprises two non-woven layers: one of synthetic fibres,  
one of mineral fibres. These two layers are needled together.

Prefd. synthetic fibres are polyethylene terephthalate, esp. prestabilised and having a unit weight of 50-350 g/m<sup>2</sup> . 3 to 8 dtex. Prefd. weight of mineral fibres (staple fibres) is 30-60 g/m<sup>2</sup>.

USE/ADVANTAGE - As a basis for roof sheeting, to be coated with bitumen, elastomer or plastomer, strong, without a tendency to delaminate, due to strength of needled connection.

Dwg.0/1

EP 176847 B

Laminate for use as the support sheet for roofing sheeting and sealing sheets comprises two non-woven layers: one of synthetic fibres, one of mineral fibres. These two layers are needled together.

Prefd. synthetic fibres are polyethylene terephthalate, esp. prestabilised and having a unit weight of 50-350 g/m<sup>2</sup> . 3 to 8 dtex. Prefd. weight of mineral fibres (staple fibres) is 30-60 g/m<sup>2</sup>.

USE/ADVANTAGE - As a basis for roof sheeting, to be coated with bitumen, elastomer or plastomer, strong, without a tendency to delaminate, due to strength of needled connection. (6pp Dwg.No.0/1)

Abstract (Equivalent): EP 176847 B

A laminate as a carrier web for roofing and sealing sheets which is made of a batt of synthetic fibres and a batt of mineral fibres, which comprises a preconsolidated synthetic fibre web and a preconsolidated mineral fibre web bonded to each other by needling, the bondings being caused by synthetic fibres of the synthetic fibre web penetrating into the mineral fibre web. (Dwg.0/1)w

Abstract (Equivalent): US 5017426 A

A laminate carrier web for roofing and sealing sheets made of a layer of synthetic fibres and a layer of mineral fibres comprises a nonwoven synthetic fibre preconsolidated by needling or by a binder and a non-woven mineral fibre preconsolidated by needling or by a binder. After being preconsolidated the fibres are bonded to each other by needling. The wt of the synthetic fibre nonwoven is 50 to 350 g/m<sup>2</sup> and the individual denier is a 3 to 8 dtex; the mineral fibre non-woven has a wt between 30 to 60 g g/m<sup>2</sup> and 10 to 100 needling stitches per cm<sup>2</sup> are applied.

ADVANTAGE - Delamination is reduced under extreme thermomechanical conditions. (3pp)o

Derwent Class: A23; A94; F04; P73; Q45

International Patent Class (Main): B32B-005/06; D04H-001/46; D06N-005/00

International Patent Class (Additional): B32B-005/08; B32B-005/26;

B32B-017/10; B32B-019/06; D04H-003/10; D04H-005/02; E04D-005/10

?map anpry temp s8

1 Select Statement(s), 1 Search Term(s)

Serial#TD651

?exs

Executing TD651

S9 1 AN-DE 3435643

?s s9 not s8

1 S9

1 S8

S10 0 S9 NOT S8

?e pn=ep 176847

Ref Items Index-term

E1 1 PN=EP 176845

E2 1 PN=EP 176846

E3 1 \*PN=EP 176847

E4 1 PN=EP 176848

E5 1 PN=EP 176849

E6 1 PN=EP 17685

E7 1 PN=EP 176850

E8 1 PN=EP 176851

E9 1 PN=EP 176852

E10 1 PN=EP 176853  
E11 1 PN=EP 176854  
E12 1 PN=EP 176855

Enter P or PAGE for more

?s e3  
S11 1 PN="EP 176847"  
?t 11/7

11/7/1  
DIALOG(R) File 351:Derwent WPI  
(c) 2000 Derwent Info Ltd. All rts. reserv.

004591927

WPI Acc No: 1986-095271/198615

Laminate for roof sheeting - comprising synthetic fibre fleece and mineral fleece needled together to prevent delamination

Patent Assignee: HOECHST AG (FARH )

Inventor: GREISER W; PLOETZ K; WAGNER H; ZERFASS K; POLTZ K; ZERFASS K C

Number of Countries: 017 Number of Patents: 014

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 176847	A	19860409				198615 B
DE 3435643	A	19860410				198616
AU 8547975	A	19860410				198622
JP 61084238	A	19860428	JP 85212735	A	19850927	198623
NO 8503811	A	19860428				198624
ZA 8507469	A	19860402	ZA 857469	A	19850927	198631
FI 8503681	A	19860329				198633
US 5017426	A	19910521	US 90481885	A	19900220	199123
CA 1297281	C	19920317				199217
EP 176847	B1	19920701	EP 85111672	A	19850916	199227
DE 3586276	G	19920806	DE 3586276	A	19850916	199233
			EP 85111672	A	19850916	
NO 173665	B	19931004	NO 853811	A	19850927	199345
JP 93079020	B	19931101	JP 85212735	A	19850927	199346
FI 94937	B	19950815	FI 853681	A	19850925	199538

Priority Applications (No Type Date): DE 3435643 A 19840928

Cited Patents: A3...8917; DE 7739489; FR 1457339; No-SR.Pub; US 4522876

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 176847	A	G	6		
Designated States (Regional): AT BE CH DE FR GB IT LI NL SE					
EP 176847	B1	G	4	D04H-001/46	
Designated States (Regional): AT BE CH DE FR GB IT LI NL SE					
DE 3586276	G			D04H-001/46	Based on patent EP 176847
NO 173665	B			D06N-005/00	Previous Publ. patent NO 8503811
JP 93079020	B	3		B32B-005/06	Based on patent JP 61084238
FI 94937	B			B32B-005/06	Previous Publ. patent FI 8503681

Abstract (Basic): EP 176847 A

Laminate for use as the support sheet for roofing sheeting and sealing sheets comprises two non-woven layers: one of synthetic fibres, one of mineral fibres. These two layers are needled together.

Prefd. synthetic fibres are polyethylene terephthalate, esp. prestabilised and having a unit weight of 50-350 g/m<sup>2</sup> . 3 to 8 dtex. Prefd. weight of mineral fibres (staple fibres) is 30-60 g/m<sup>2</sup>.

USE/ADVANTAGE - As a basis for roof sheeting, to be coated with bitumen, elastomer or plastomer, strong, without a tendency to delaminate, due to strength of needled connection.

Dwg. 0/1

EP 176847 B

Laminate for use as the support sheet for roofing sheeting and

sealing sheets comprises two non-woven layers: one of synthetic fibres, one of mineral fibres. These two layers are needled together.

Prefd. synthetic fibres are polyethylene terephthalate, esp. prestabilised and having a unit weight of 50-350 g/m<sup>2</sup>. 3 to 8 dtex. Prefd. weight of mineral fibres (staple fibres) is 30-60 g/m<sup>2</sup>.

USE/ADVANTAGE - As a basis for roof sheeting, to be coated with bitumen, elastomer or plastomer, strong, without a tendency to delaminate, due to strength of needled connection. (6pp Dwg.No.0/1)

Abstract (Equivalent): EP 176847 B

A laminate as a carrier web for roofing and sealing sheets which is made of a batt of synthetic fibres and a batt of mineral fibres, which comprises a preconsolidated synthetic fibre web and a preconsolidated mineral fibre web bonded to each other by needling, the bondings being caused by synthetic fibres of the synthetic fibre web penetrating into the mineral fibre web. (Dwg.0/1)w

Abstract (Equivalent): US 5017426 A

A laminate carrier web for roofing and sealing sheets made of a layer of synthetic fibres and a layer of mineral fibres comprises a nonwoven synthetic fibre preconsolidated by needling or by a binder and a non-woven mineral fibre preconsolidated by needling or by a binder. After being preconsolidated the fibres are bonded to each other by needling. The wt of the synthetic fibre nonwoven is 50 to 350 g/m<sup>2</sup> and the individual denier is a 3 to 8 dtex; the mineral fibre non-woven has a wt between 30 to 60 g g/m<sup>2</sup> and 10 to 100 needling stitches per cm<sup>2</sup> are applied.

ADVANTAGE - Delamination is reduced under extreme thermomechanical conditions. (3pp)o

Derwent Class: A23; A94; F04; P73; Q45

International Patent Class (Main): B32B-005/06; D04H-001/46; D06N-005/00

International Patent Class (Additional): B32B-005/08; B32B-005/26;

B32B-017/10; B32B-019/06; D04H-003/10; D04H-005/02; E04D-005/10

?map anpry temp s11

1 Select Statement(s), 1 Search Term(s)

Serial#TD652

?exs

Executing TD652

S12 1 AN=DE 3435643

?s s12 not s11

1 S12

1 S11

S13 0 S12 NOT S11

?s pn=de 19739049

S14 1 PN=DE 19739049

?t 14/7

14/7/1

DIALOG(R)File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

012362825

WPI Acc No: 1999-168932/199915

**Nonwoven fabric - for use as a ground material for a floor covering**

Patent Assignee: FLEISSNER GMBH & CO MASCHFAB (FLSS )

Inventor: FLEISSNER G

Number of Countries: 025 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 900869	A2	19990310	EP 98114240	A	19980730	199915 B
DE 19739049	A1	19990311	DE 1039049	A	19970905	199916

Priority Applications (No Type Date): DE 1039049 A 19970905

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
EP 900869 A2 G 3 D04H-001/46  
Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT  
LI LT LU LV MC MK NL PT RO SE SI  
DE 19739049 A1 D04H-001/46

Abstract (Basic): EP 900869 A

NOVELTY - For the prodn. of nonwovens, continuous filaments are laid directly after spinning into a web of a consistent thickness. The web is needle bonded by a hydrodynamic action to give a high tensile nonwoven, to be used as a carrier layer without a bonding agent. The entire surface is given a functional coating.

DETAILED DESCRIPTION - The bonded nonwoven is heat treated to give three-dimensional stability, before coating with a bitumen material. A glass fiber layer is bonded to the needle-bonded nonwoven before and/or with the bitumen coating action, or the glass fiber layer can be impregnated with bitumen. The hydrodynamic needle bonding is applied with an energy of at least 0.3 kWh/kg fibers. The hydrodynamic needling is applied alternately to both sides of the continuous moving web, and the needling develops a perforated structure in the material.

POLYMERS - The continuous filaments are of pure polyethylene (PE), or of polyamide fibers, polyolefin filaments and pref. polyethylene or polypropylene filaments.

USE - The material can be used as the ground material for floor coverings, with surface piles tufted into one surface.

ADVANTAGE - The process gives a continuous and high tensile nonwoven web, without bonding agents or locking fibers, at an economic cost

Dwg. 0/3

Derwent Class: A93; F04

International Patent Class (Main): D04H-001/46

International Patent Class (Additional): D06N-005/00; E04D-005/02

?map anpryy temp s14

1 Select Statement(s), 1 Search Term(s)

Serial#TD653

?exs

Executing TD653

S15 4 AN=DE 1039049

?s s15 not s14

4 S15

1 S14

S16

3 S15 NOT S14

?t 16/7/all

16/7/1

DIALOG(R) File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

013085812 \*\*Image available\*\*

WPI Acc No: 2000-257684/200023

Device for automatic tank-filling of cars with fuel of variable quality has end deflector with unit to open/close tank flap at end of telescopic flexible arm plus seal-gripping, filling and valve units

Patent Assignee: ARAL AG (ARAL-N); REIS GMBH & CO MASCHFAB OBERNBURG (REIS-N)

Inventor: FISCHER A; SCHUMANN T

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19839049	A1	20000302	DE 1039049	A	19980828	200023 B

Priority Applications (No Type Date): DE 1039049 A 19980828

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes  
DE 19839049 A1 6 B60S-005/02

Abstract (Basic): DE 19839049 A1

NOVELTY - A device for automatic tank-filling of cars with fuel of variable quality has an end deflector (1) forming a component part of an outrigger of a tank robot.

DETAILED DESCRIPTION - The end deflector has the following subassemblies: - a tank flap unit (2) to open and close the tank flap of a car with a sucker (4) located at the free end of a telescopic flexible flap arm (3); - a tank seal-gripping unit (5) with a rotatable tank lock head (6) that can be displaced axially, a sensory mechanism (7) locating the tank seal and gripping tongs (8) for locking contact on the tank seal; - a filling pipe unit (9) with a central filling pipe (10), a rotating sleeve (11) encircling the filling pipe concentrically and a sliding sleeve (12) extending over the rotating sleeve forming a counter-bearing for the gripping tongs, spring-loaded and able to be displaced axially relative to the rotating sleeve; and - a tap valve unit (13) with an integrated rotating lead-through (14) to supply fuel to the filling pipe.

USE - for automatic tank-filling of cars with fuel of variable quality

ADVANTAGE - Flexible and efficient end deflector for docking with the tank pipe of a car.

DESCRIPTION OF DRAWING(S) - The drawing shows a side view of the filling apparatus

tank flap unit (2)  
telescopic flexible flap arm (3)  
sucker (4)  
rotatable tank lock head (6)  
sensory mechanism (7)  
gripping tongs (8)  
filling pipe unit (9)  
central filling pipe (10)  
rotating sleeve (11)  
sliding sleeve (12)  
pp; 6 DwgNo 1/1

Derwent Class: P62; Q17; Q39; Q67; X25

International Patent Class (Main): B60S-005/02

International Patent Class (Additional): B25J-009/10; B67D-005/36;

B67D-005/37; F16L-037/48

16/7/2

DIALOG(R) File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

011777579 \*\*Image available\*\*

WPI Acc No: 1998-194489/199818

Programmed dispenser for soft items e.g. clothing - has items in separate stacks and with grabs on separate conveyor belts to lift off top item of each stack and drop it into output feed

Patent Assignee: QUELLE SCHICKEDANZ & CO AG (SCIK )

Inventor: BUESCHEL S; CHRIST F; HAEUSSLER J; PAWLIKOWSKI G

Number of Countries: 023 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19639049	A1	19980326	DE 1039049	A	19960924	199818 B
EP 834458	A1	19980408	EP 97115400	A	19970905	199818

Priority Applications (No Type Date): DE 1039049 A 19960924

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes



DE 19639049 A1 9 B65G-047/10  
EP 834458 A1 G 11 B65G-001/137  
Designated States (Regional): AL AT BE CH DE DK ES FI FR GB GR IE IT LI  
LT LU LV MC NL PT RO SE SI  
Abstract (Basic): DE 19639049 A

The dispenser has a number of sections each filled with a stack of soft goods. The items (11) are picked off by an overhead grab (8) attached to a conveyor (9) which transfers the item to an output feed (13). The whole dispenser is controlled by a programmed control to select particular items.

The grabs can be suction types or mechanical grips assisted by adhesive pads. The conveyor can be curved or straight. Sensors monitor the filled level in each section.

ADVANTAGE - Items selected by programmed control. Pick off only needs to lift one item at time and not whole weight of stack.

Dwg.1,3/9

Derwent Class: Q35; X25

International Patent Class (Main): B65G-001/137; B65G-047/10

16/7/3

DIALOG(R)File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

011321147 \*\*Image available\*\*

WPI Acc No: 1997-299051/199728

Coriolis rotation speed sensor manufacture, with deflectable vibrating mass suspended at substrate - has carrier structure of vibrating mass and springs for evaluation system also drive system structured in common working cycle from silicon-on-insulator wafer

Patent Assignee: BOSCH GMBH ROBERT (BOSC )

Inventor: LAERMER F; LUTZ M; MUENZEL H; OFFENBERG M; SCHILP A

Number of Countries: 021 Number of Patents: 007

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19539049	A1	19970424	DE 1039049	A	19951020	199728 B
WO 9715066	A2	19970424	WO 96DE1969	A	19961017	199728
WO 9715066	A3	19970612	WO 96DE1969	A	19961017	199740
EP 856143	A2	19980805	EP 96945505	A	19961017	199835
			WO 96DE1969	A	19961017	
JP 11513844	W	19991124	WO 96DE1969	A	19961017	200006
			JP 97515420	A	19961017	
KR 99066938	A	19990816	WO 96DE1969	A	19961017	200045
			KR 98702860	A	19980420	
EP 856143	B1	20001011	EP 96945505	A	19961017	200052
			WO 96DE1969	A	19961017	

Priority Applications (No Type Date): DE 1039049 A 19951020

Cited Patents: EP 618450; EP 664438; No-SR.Pub

Patent Details:

Patent No	Kind	Lang	Pg	Main IPC	Filing Notes
-----------	------	------	----	----------	--------------

DE 19539049	A1		9	H01L-049/00	
-------------	----	--	---	-------------	--

WO 9715066	A2 G		26	H01L-000/00	
------------	------	--	----	-------------	--

Designated States (National): JP KR US

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LU MC

NL PT SE

WO 9715066	A3			H01L-049/00	
------------	----	--	--	-------------	--

EP 856143	A2 G			G01C-019/56	Based on patent WO 9715066
-----------	------	--	--	-------------	----------------------------

Designated States (Regional): CH DE FR GB LI SE

JP 11513844	W		21	H01L-029/84	Based on patent WO 9715066
-------------	---	--	----	-------------	----------------------------

KR 99066938	A			G01C-019/56	Based on patent WO 9715066
-------------	---	--	--	-------------	----------------------------

EP 856143	B1 G			G01C-019/56	Based on patent WO 9715066
-----------	------	--	--	-------------	----------------------------

Designated States (Regional): CH DE FR GB LI SE

Abstract (Basic): DE 19539049 A

The method for the production of a rpm sensor (10) with a bulk substrate (44) which has a silicon oxide layer. A deflectable vibrating mass (12,14) is spring suspended at the substrate. It carries the evaluation system for determining Coriolis accelerations, also a drive system for exciting a planer vibration of the vibrating mass.

A carrier structure for the evaluation unit (15), consisting of the vibrating mass and the springs (16), also the drive unit (20) are structured from silicon-on-insulation (SOI) wafer using plasma etching. The wafer construction contains a buried oxide layer (46), which serves as an etching stop for the front side plasma etching and the rear side etching.

ADVANTAGE - Carrier structure can be simply and exactly structured, independent of etching time. Maintains stable wafer. Buried oxide layer prevents over etching and acts as seal.

Dwg.2/12

Derwent Class: S02; U11; U12; W06

International Patent Class (Main): G01C-019/56; H01L-000/00; H01L-029/84;

H01L-049/00

International Patent Class (Additional): G01P-009/04; G01P-015/14;

H01L-021/306

?s pn=ep 806509

S17

?t 17/7

1 PN=EP 806509

17/7/1

DIALOG(R)File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

011562162

WPI Acc No: 1997-538643/199750

Load-bearing interlayer, especially for bituminised roofing strip - comprises textile sheet reinforced, e.g. with wire, so as to increase tensile strength

Patent Assignee: HOECHST TREVIRA GMBH & CO KG (FARH ); JOHNS MANVILLE INT INC (JOHNM )

Inventor: GROH W; PROFE H; SCHOEPS M

Number of Countries: 011 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 806509	A1	19971112	EP 97106878	A	19970425	199750 B
DE 19618775	A1	19971113	DE 1018775	A	19960510	199751
CA 2204967	A	19971110	CA 2204967	A	19970509	199822
JP 10131019	A	19980519	JP 97120768	A	19970512	199830
KR 97075017	A	19971210	KR 9717582	A	19970508	199848
US 6114262	A	20000905	US 97853061	A	19970508	200044

Priority Applications (No Type Date): DE 1018775 A 19960510

Cited Patents: DE 3941189; DE 4337984; DE 9207367; EP 359165

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 806509 A1 G 13 D04H-013/00

Designated States (Regional): BE DE FR GB IT LU NL

DE 19618775 A1 12 D04H-005/08

CA 2204967 A D04H-001/00

JP 10131019 A 10 D04H-003/00

KR 97075017 A D04H-001/58

US 6114262 A D04H-003/05

Abstract (Basic): EP 806509 A

The load-bearing interlayer (I), containing (A) a textile sheet and (B) a reinforcement which absorbs energy so that the standard load (SL) in the stress-strain curve (at 20 deg. C) for the combination (A/B) differs from that of the interlayer without (B) by at least 10%, and

the ratio of SL at 20 deg. C divided by SL at 180 deg. C is not more than 3, in each case at at least one point in the range between 0 and 1% elongation. Also claimed is (i) the production of (I), (ii) composites containing (I) and (iii) roofing and sealing strips containing (I).

USE - For the production of composites, especially roofing and sealing strips, preferably bituminised strips (claimed).

ADVANTAGE - The load-bearing interlayer provides a load-bearing interlayer (for roofing strip etc.) with an appreciably improved tensile strength at low elongation over the entire temperature range.

Dwg.0/0

Derwent Class: A93; F04; Q45

International Patent Class (Main): D04H-001/00; D04H-001/58; D04H-003/00;

D04H-003/05; D04H-005/08; D04H-013/00

International Patent Class (Additional): D04H-003/10; D04H-003/12;

D04H-005/00; D06N-007/00; E04D-005/02

?map anpry temp s17

1 Select Statement(s), 1 Search Term(s)

Serial#TD654

?exs

Executing TD654

S18 3 AN=DE 1018775

?s s18 not s17

3 S18

1 S17

S19 2 S18 NOT S17

?t 19/7/all

19/7/1

DIALOG(R)File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

013101677 \*\*Image available\*\*

WPI Acc No: 2000-273548/200024

Mixing apparatus for the production of a drilling fluid for horizontal boring has a high pressure pump and a pipe for addition medium

Patent Assignee: TRACTO TECH SCHMIDT SPEZIALMASCHINEN PAU (TRAC-N)

Inventor: SCHAUERTE M

Number of Countries: 026 Number of Patents: 003

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 994235	A2	20000419	EP 99120187	A	19991009	200024 B
DE 19918775	A1	20000420	DE 1018775	A	19990424	200026
AU 9953489	A	20000420	AU 9953489	A	19991006	200029

Priority Applications (No Type Date): DE 1018775 A 19990424; DE 98U2018289

U 19981014

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 994235 A2 G 8 E21B-021/06

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT

LI LT LU LV MC MK NL PT RO SE SI

DE 19918775 A1 E21B-021/00

AU 9953489 A E21B-021/06

Abstract (Basic): EP 994235 A2

NOVELTY - Mixing apparatus has a high pressure pump (7) and a pipe (21) for the addition medium. The pipe (21) is arranged in the flow direction in front of the high pressure pump (7).

DETAILED DESCRIPTION - An INDEPENDENT CLAIM is included for the process of producing drilling fluid in which the addition medium is feed to the service water in front or behind a high pressure pump (7).

USE - Used in the production of boring fluid for horizontal boring.

ADVANTAGE - The apparatus can be easily charged with the drilling fluid. Recycling of the drilling fluid is carried out in an ecological and economical way.

DESCRIPTION OF DRAWING(S) - The diagram shows a frontal section through the apparatus with the pipe of the suspension medium in the flow direction in front of the high pressure pump.

high pressure pump (7)

pipe (21)

pp; 8 DwgNo 1/6

Derwent Class: H01; J02; Q49

International Patent Class (Main): E21B-021/00; E21B-021/06

International Patent Class (Additional): B01F-003/12; B01F-005/04;

B01F-005/10; E21B-007/04; E21B-021/08

19/7/2

DIALOG(R) File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

012153102 \*\*Image available\*\*

WPI Acc No: 1998-570014/199849

Electronic watch - supplies rotation detector circuit from main power supply through voltage divider

Patent Assignee: SEIKO INSTR INC (DASE ); SEIKO EPSON CORP (SHIH )

Inventor: HAYASHI K; YUZUKI T

Number of Countries: 004 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19818775	A1	19981029	DE 1018775	A	19980427	199849 B
JP 10300870	A	19981113	JP 97109718	A	19970425	199905
CN 1198547	A	19981111	CN 98107907	A	19980425	199913
US 6052337	A	20000418	US 9865984	A	19980424	200026 N

Priority Applications (No Type Date): JP 97109718 A 19970425; US 9865984 A 19980424

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

DE 19818775	A1	11	G04C-003/14		
-------------	----	----	-------------	--	--

JP 10300870	A	8	G04C-003/14		
-------------	---	---	-------------	--	--

US 6052337	A		G04F-005/00		
------------	---	--	-------------	--	--

CN 1198547	A		G04G-003/00		
------------	---	--	-------------	--	--

Abstract (Basic): DE 19818775 A

The watch contains an oscillatory circuit (101) the output signal of which is divided by a divider circuit (102) . A pulse synthesizing circuit (103) synthesises a control, a correction, a rotation detecting pulse or something similar outputting them selectively. A constant voltage supply (106) supplies the oscillatory circuit or that circuit and a logic section in it, the divider circuit and a logic circuit in the oscillatory circuit. A stepping motor (105) is controlled by a control circuit (104) responding to the output signal from the pulse synthesizing circuit. A variable resistance divider (107) with one end connected to the motor coil provides an optional voltage in accordance with an output signal from the control circuit (104) which controls the motor. A rotation detection circuit (108) supplied with a reference voltage from the oscillatory system constant voltage supply (106) compares that voltage with the voltage from the variable resistance to determine whether the stepper motor is rotating or not rotating based on the amplitude of the difference in value detected

USE - For wrist watches

ADVANTAGE - Dispenses with a separate constant voltage supply for the ion detector circuit by supplying it from main power supply through

voltage divider reducing size of IC

Dwg.1/5

Derwent Class: S04

International Patent Class (Main): G04C-003/14; G04F-005/00; G04G-003/00

International Patent Class (Additional): G04C-010/00

?s pn=de 19521838

S20 1 PN=DE 19521838

?t 20/7

20/7/1

DIALOG(R) File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

011065922

WPI Acc No: 1997-043846/199705

**Supporting liner for roofing and sealing strip with high tensile strength  
- has at least two reinforcing layers of fibre on both sides of textile  
sheet made of organic fibres**

Patent Assignee: HOECHST TREVIRA GMBH & CO KG (FARH )

Inventor: GROH W; WEITER B

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19521838	A1	19961219	DE 1021838	A	19950616	199705 B

Priority Applications (No Type Date): DE 1021838 A 19950616

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19521838	A1	7	D04H-001/42		

Abstract (Basic): DE 19521838 A

A supporting liner (SL) for roofing and sealing strips, contg. (A) at least two reinforcing layers of fibre on both sides of (B) a textile sheet made of organic fibres. Also claimed is (i) a process for the prodn. of SL; (ii) roofing and sealing strip contg. SL, esp. bituminised strip. The prodn. of SL comprises (a) forming a textile sheet; (b) adding a reinforcing layer; (c) adding a fine non-woven fabric; (d) prebonding the laminate by needling or at elevated temp. and pressure; (e) adding a prebonded laminate consisting of a fine non-woven and a reinforcing layer, opt. with a fire-retardant layer on the reinforcing layer; and (f) bonding the liner by needling and/or with thermal or chemical binders, opt. using an acrylate binder, and drying.

USE - For the prodn. of roofing and sealing strip. esp. bituminised strip (claimed).

ADVANTAGE - Enables the prodn. of roofing and sealing strip with a high resistance to flying sparks, radiant heat and perforation, a high tensile strength and a low tendency to delamination, which is suitable for single-layer roofing. The use of SL gives greater productivity in the prodn. of the composite strip.

Dwg.0/2

Derwent Class: A14; A23; A93; F04; Q45

International Patent Class (Main): D04H-001/42

International Patent Class (Additional): D06N-005/00; D06N-007/00;

E04D-005/00

?map anpryy temp s20

1 Select Statement(s), 1 Search Term(s)

Serial#TD655

?exs

Executing TD655

S21 4 AN=DE 1021838

?s s21 not s20

4 S21  
1 S20  
S22 3 S21 NOT S20  
?t 22/7/all

22/7/1  
DIALOG(R)File 351:Derwent WPI  
(c) 2000 Derwent Info Ltd. All rts. reserv.

013024267 \*\*Image available\*\*  
WPI Acc No: 2000-196118/200018  
Airbag device with control airbag inflation especially for motor vehicles  
has control valve slide loaded by gas from generator to form different  
pressure levels on either side of slide movement axis  
Patent Assignee: AUTOLIV DEV AB (AUTO-N); BAYERISCHE MOTOREN WERKE AG (BAYM  
)

Inventor: PANTKE S; RAU S  
Number of Countries: 024 Number of Patents: 003  
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19821838	A1	19991125	DE 1021838	A	19990515	200018 B
WO 9959846	A1	19991125	WO 99EP3059	A	19990505	200018
AU 9942582	A	19991206	AU 9942582	A	19990505	200019

Priority Applications (No Type Date): DE 1021838 A 19980515

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
-----------	------	-----	----	----------	--------------

DE 19821838	A1		5	B60R-021/26	
-------------	----	--	---	-------------	--

WO 9959846	A1	G		B60R-021/26	
------------	----	---	--	-------------	--

Designated States (National): AU BR CN JP KR US

Designated States (Regional): AT BE CH CY DE DK ES FI FR GB GR IE IT LU

MC NL PT SE

AU 9942582 A B60R-021/26 Based on patent WO 9959846

Abstract (Basic): DE 19821838 A1

NOVELTY - A gas guide housing (10) has a valve slide to control the inflation process. The slide moves translatable inside the housing, and the housing has a cover (13) acting as stop (14) for the slide. When in open position, the slide is positioned at a distance (20) to the cover, which defines the slide movement distance, so that the gas produced by the generator (12) loads the slide in direction of its closing position. This generates different pressure levels on either side of the movement direction of the slide. The slide is a sleeve, positioned concentrically around the tubular gas generator, in the ring gap (15) between generator and housing.

USE - Airbag device for motor vehicles.

ADVANTAGE - Simple and effective regulation of inflation of one or more connected airbags.

DESCRIPTION OF DRAWING(S) - Figure shows section through housing with open slide and gas generator.

gas guide housing (10)

gas generator (12)

housing cover (13)

stop (14)

ring gap (15)

distance (20)

pp; 5/DwgNo 1/2

Derwent Class: Q17

International Patent Class (Main): B60R-021/26

22/7/2  
DIALOG(R)File 351:Derwent WPI  
(c) 2000 Derwent Info Ltd. All rts. reserv.

012204654

WPI Acc No: 1999-010760/199902

**Water-free material burning with coloured flame - contains solution of alkali(ne earth) metal salts in alkylene glycol(s)**

Patent Assignee: GE.O-REINIGUNGSTECHNIK BACKBETRIEBE GMBH (GEOR-N)

Inventor: OCKENGA R E; VOJTUS E

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19721838	A1	19981126	DE 1021838	A	19970524	199902 B

Priority Applications (No Type Date): DE 1021838 A 19970524

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19721838	A1		4	F42B-004/26	

Abstract (Basic): DE 19721838 A

Water-free material which is liquid at room temperature under normal pressure and burns with a coloured flame contains a solution of alkali(ne earth) metal salts including boric acid and its derivatives in alkylene glycols of formula:  $\text{HOR1[OR2]nOR3OH}$  which are soluble in or mixable with water (where,  $\text{R1-R3} = 2-20\text{C alkyl}$ ; and  $n = 0$  or a whole number). Also claimed is an apparatus for burning the above material comprising a vessel for holding the material and a wick material made of sodium-free porous structure, especially ceramic fibres, glass fibres, diatomaceous earth, or cotton having adhesion properties for the combustible material.

USE - In fireworks and in qualitative chemical analysis.

ADVANTAGE - The flame colour lasts over the whole combustion time of the combustible material. Blocking of the wick is avoided.

Dwg.0/0

Derwent Class: A95; E12; E17; H06; J04; K04; Q79

International Patent Class (Main): F42B-004/26

International Patent Class (Additional): C10L-001/10; C10L-001/30

22/7/3

DIALOG(R) File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

011593887

WPI Acc No: 1998-011015/199802

**Production of polymers of 2-12C alkene monomers - by polymerisation using metallocene catalyst system with addition of a special group III metal hydride as temporary catalyst blocker**

Patent Assignee: BASF AG (BADI )

Inventor: ROESCH J; BIDELE W; LANGHAUSER F

Number of Countries: 008 Number of Patents: 004

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 810233	A2	19971203	EP 97108001	A	19970516	199802 B
DE 19621838	A1	19971204	DE 1021838	A	19960531	199803
JP 10053605	A	19980224	JP 97138490	A	19970528	199818
US 6127495	A	20001003	US 97866386	A	19970530	200050

Priority Applications (No Type Date): DE 1021838 A 19960531

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 810233	A2	G	16	C08F-002/40	

Designated States (Regional): BE DE ES FR GB NL

DE 19621838 A1 10 C08F-010/00

JP 10053605 A 11 C08F-002/38

US 6127495 A C08F-002/38

Abstract (Basic): EP 810233 A

A process for the production of polymers of 2-12C alkenes at -50 to 300 deg. C and 0.5-3000 bar in presence of a catalyst system, with the addition of a compound of formula  $H-M1(R2)R1$  (I); where  $M1 = B, Al, Ga, In$  or  $Tl$ ;  $R1, R2 = H, 1-10C$  alkyl, 6-15C aryl, or alkaryl or aralkyl with a 1-10C alkyl and a 6-20C aryl group, or 5- to 7-membered cycloalkyl (optionally substituted with 1-10C alkyl); or  $R1 + R2$  may form a 4-15C cyclic group.

Preferably  $R1$  and  $R2$  together form part of a 4-15C bicyclic group;  $M1 = boron$ . The catalyst system contains (A) a metallocene complex and (B) a metallocenium ion-forming compound. A metal compound of formula  $M4(R24)r(R25)s(R26)t$  (IV) may also be added;  $M4 = alkali$  or alkaline earth metal, or a Sub-Group III metal, i.e.  $B, Al, Ga, In$  or  $Tl$ ;  $R24 = 1-10C$  alkyl, 6-15C aryl, or alkaryl or aralkyl with 1-10C alkyl and 6-20C aryl groups;  $R25, R26 = as$  for  $R24$ , or also halogen or 1-10C alkoxy;  $r = 1-3$ ;  $s, t = 0-2$ ;  $r + s + t =$  the valency of  $M4$ .

ADVANTAGE - Compound (I) functions as a retarder, temporarily blocking the activity of the catalyst (preferably for 5-25 mins.) and preventing unwanted polymerisation in the catalyst feed line. After this, the catalyst activity returns automatically to its original value or even to a value up to 30% higher. The process also facilitates the homogeneous distribution of the catalyst system in the reactor, thereby preventing local hot spots etc..

Dwg. 0/0

Derwent Class: A17; E12

International Patent Class (Main): C08F-002/38; C08F-002/40; C08F-010/00

International Patent Class (Additional): C08F-004/625; C08F-004/64;

C08F-010/10

ts pn=de 19543991

S23 1 PN=DE 19543991

?

pt 23/7

23/7/1

DIALOG(R) File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

011312569

WPI Acc No: 1997-290473/199727

Road-works reinforcement - is woven mesh material of polyester or glass fibres coated with polystyrene-polybutadiene plastic bonded to polyester or polypropylene non-woven material

Patent Assignee: SYNTEN GEWEBETECHNIK GMBH (SYNT-N)

Inventor: LAGEMANN B

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19543991	A1	19970528	DE 1043991	A	19951125	199727 B

Priority Applications (No Type Date): DE 1043991 A 19951125

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

DE 19543991 A1 4 D06N-007/00

Abstract (Basic): DE 19543991 A

A woven material comprises a woven mesh bonded to a nonwoven material. The woven mesh material is of polyester or glass fibres, and the nonwoven material is polyester or polypropylene. The woven is coated with a styrene butadiene plastics, compatible with bitumen. The woven and/or nonwoven materials can contain a metal, such as copper strands, metal pigments and the like and/or a carbon such as soot, graphite, etc. The nonwoven, impregnated with bitumen, is covered by a protective silicon paper. A polyethylene film is placed between the



woven mesh and the nonwoven material.

USE - The woven material is used for reinforcing structures, especially road-works.

ADVANTAGE - The structure has a higher strength with easier handling.

Dwg. 0/4

Derwent Class: A93; F08

International Patent Class (Main): D06N-007/00

International Patent Class (Additional): D03D-001/00

?map anpryy temp s23

1 Select Statement(s), 1 Search Term(s)  
Serial#TD656

?exs

Executing TD656

S24 4 AN=DE 1043991

?s s24 not s23

4 S24

1 S23

S25 3 S24 NOT S23

?t 25/7/all

25/7/1

DIALOG(R)File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

013132597 \*\*Image available\*\*

WPI Acc No: 2000-304468/200027

**Furnace wall, especially for waste incineration furnace has filler sheet joined to tube wall to cover gap around inserted secondary air pipe**

Patent Assignee: JUENGER & GRAETER GMBH FEUERFESTBAU (JUEN-N)

Inventor: BEUL H G; DREXLER J; SCHUHMACHER U

Number of Countries: 001 Number of Patents: 001

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 19843991	A1	20000406	DE 1043991	A	19980925	200027 B

Priority Applications (No Type Date): DE 1043991 A 19980925

Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
DE 19843991	A1	15	F23M-005/00		

Abstract (Basic): DE 19843991 A1

NOVELTY - A combustion furnace wall, comprising a filler sheet (60) joined to a tube wall to cover the gap (12) around an inserted secondary air pipe (50), is new.

DETAILED DESCRIPTION - A combustion furnace wall comprises a tube wall of medium circulation tubes connected by ribs and a refractory front wall separating the tube wall from the combustion space, the tubes being bent to form a gap for a secondary air pipe leading into the combustion space. The gap (12), remaining around the secondary air pipe (50), is covered with one or more filler sheets (60) joined to the tube wall (10).

Preferred Features: A temporary layer (63) is provided on the filler sheet side/nearest the combustion space (30).

USE - Especially as a waste incineration furnace wall.

ADVANTAGE - The filler sheet efficiently transfers heat from the gap region to the tubes to provide uniform closed wall properties and can act as a support for refractory material introduced into the gap during construction.

DESCRIPTION OF DRAWING(S) - The drawing shows a furnace wall according to the invention, excluding the refractory front wall.  
Furnace wall (1)

Tubes (2)  
Ribs (3)  
Tube Wall (10)  
Gap (12)  
Secondary air pipe (50)  
Filler Sheet (60)  
pp; 15 DwgNo 2/13  
Derwent Class: A88; Q73  
International Patent Class (Main): F23M-005/00

25/7/2  
DIALOG(R) File 351: Derwent WPI  
(c) 2000 Derwent Info Ltd. All rts. reserv.

012424397  
WPI Acc No: 1999-230505/199920  
**Cueing and disc jockey console system**  
Patent Assignee: BONEBERGER F (BONE I)  
Inventor: BONEBERGER F  
Number of Countries: 001 Number of Patents: 001  
Patent Family:  
Patent No Kind Date Applicat No Kind Date Week  
DE 19743991 A1 19990401 DE 1043991 A 19970926 199920 B

Priority Applications (No Type Date): DE 1043991 A 19970926  
Patent Details:  
Patent No Kind Lan Pg Main IPC Filing Notes  
DE 19743991 A1 8 A47B-081/06

Abstract (Basic): DE 19743991 A1  
NOVELTY - The system has devices for building in equipment, esp.  
equipment with a standard width of 483 mm. or 19 inches, without  
adaptation. Shock sensitive equipment can be mounted without contact  
with the base and expansion frames  
USE - For cueing and disc jockeying  
ADVANTAGE - The system is standardized and ergonomically designed  
for optimal use of the components  
pp; 8 DwgNo 0/6  
Derwent Class: P25; V04  
International Patent Class (Main): A47B-081/06  
International Patent Class (Additional): A47B-019/00; A47B-019/10;  
A47B-081/00; A47B-096/00; H05K-005/00

25/7/3  
DIALOG(R) File 351: Derwent WPI  
(c) 2000 Derwent Info Ltd. All rts. reserv.

011638068 \*\*Image available\*\*  
WPI Acc No: 1998-054976/199806  
**Device for laying tiles or panels on ground - has flat plate with elastic  
underside coating which has openings which are joined to connecting hoses  
via holes on upper side of plate**  
Patent Assignee: LUETKEBOHMERT G (LUET-I)  
Inventor: LUETKEBOHMERT G  
Number of Countries: 018 Number of Patents: 003  
Patent Family:  
Patent No Kind Date Applicat No Kind Date Week  
EP 816593 A2 19980107 EP 97110873 A 19970702 199806 B  
DE 19643991 A1 19980108 DE 1043991 A 19961031 199807  
DE 19643991 C2 19981210 DE 1043991 A 19961031 199902

Priority Applications (No Type Date): DE 1043991 A 19961031; DE 1026561 A

19960703

Cited Patents: No-SR.Pub

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 816593 A2 G 6 E04F-021/20

Designated States (Regional): AT BE CH DE DK ES FI FR GB GR IE IT LI LU

MC NL PT SE

DE 19643991 A1 6 E04F-021/22

DE 19643991 C2 E04F-021/22

Abstract (Basic): EP 816593 A

The device is used for laying tiles (12), and has a supporting frame with a number of suction openings which corresponds to the number of tiles which are to be carried. The frame can be raised, lowered and rotated using a supporting arm (4) on a carrying vehicle (1).

The frame is in the form of a flat plate (6) with holes (14), which connecting hoses open into on its upper side. The underside of the plate is covered over its entire length and breadth with a coating which is pliable in an elastic manner, and which includes the suction openings. The latter are aligned with the holes. The diameter of the openings (10) may also be greater than that of the holes (15).

USE - Tile laying.

ADVANTAGE - The tiles can be held more reliably, as the usual single suction opening is replaced by a plate with many openings.

Dwg.1/5

Derwent Class: Q35; Q38; Q41; Q45

International Patent Class (Main): E04F-021/20; E04F-021/22

International Patent Class (Additional): B65G-047/91; B66C-001/02;

E01C-019/52

?s pn=ep 132325

S26

1 PN=EP 132325

?t 26/7

26/7/1

DIALOG(R)File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

004199670

WPI Acc No: 1985-026550/198505

Process for adhering surface coatings - covering will not buckle over stable or unstable sub-surfaces

Patent Assignee: ARMSTRONG WORLD IND INC (ARMS )

Inventor: ECKERT D C; GEORGE J R; LILLEY G L; SENSENIG D L; TSHUDY J A

Number of Countries: 009 Number of Patents: 006

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 132325	A	19850130	EP 84304424	A	19840628	198505 B
AU 8428788	A	19850103				198508
JP 60021983	A	19850204	JP 84131229	A	19840627	198511
EP 132325	B	19881123				198847
DE 3475325	G	19881229				198902
CA 1253063	A	19890425				198921

Priority Applications (No Type Date): US 83508884 A 19830629

Cited Patents: 1.Jnl.Ref; A3...8617; No-SR.Pub; US 4233793

Patent Details:

Patent No Kind Lan Pg Main IPC Filing Notes

EP 132325 A E 38

Designated States (Regional): BE DE FR GB LU NL

EP 132325 B E

Designated States (Regional): BE DE FR GB LU NL

Abstract (Basic): EP 132325 A

A process for applying an adherent surface covering to a subsurface

so that the covering will accommodate dimensional change in the subsurface without buckling, although, in principle, its critical buckle strain is less than the expected dimensional change.

Various properties, for example the relaxed compressive stiffness and the bending stiffness, of the covering are measured and calculations to enable an adhesive of appropriate properties to be selected are made, the covering being applied using an appropriate adhesive. The reinforcement in a reinforced surface covering may alternatively be modified so that the relaxed compressive stiffness of the covering is low enough to accommodate dimensional change in a subsurface.

ADVANTAGE - An adhesive suitable to a surface covering can be selected so that the covering will not buckle when used over stable or unstable subsurfaces.

0/3

Abstract (Equivalent): EP 132325 B

A process for applying an adherent surface covering to a subsurface so that the covering will accommodate dimensional change in the subsurface without buckling, although, in principle, its critical buckle strain is less than the expected dimensional change.

Various properties, for example the relaxed compressive stiffness and the bending stiffness, of the covering are measured and calculations to enable an adhesive of appropriate properties to be selected are made, the covering being applied using an appropriate adhesive. The reinforcement in a reinforced surface covering may alternatively be modified so that the relaxed compressive stiffness of the covering is low enough to accommodate dimensional change in a subsurface.

ADVANTAGE - An adhesive suitable to a surface covering can be selected so that the covering will not buckle when used over stable or unstable subsurfaces. (38pp Dwg.No.0/3)

Derwent Class: F07; P73; Q45; T01; X25

International Patent Class (Additional): B32B-003/14; B32B-007/02;

B32B-027/30; D06N-007/00; E04F-013/00; E04F-015/18; G06F-015/46

?map anpry temp s26

1 Select Statement(s), 1 Search Term(s)

Serial#TD657

?exs

Executing TD657

S27 2 AN=US 508884-1983

?s s27 not s26

2 S27

1 S26

S28 1 S27 NOT S26

?t 28/7

28/7/1

DIALOG(R)File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

007108269

WPI Acc No: 1987-108266/198715

**Loose lay floor covering for unstable subfloor - has critical buckle strain greater than subfloor dimensional change to prevent curling etc.**

Patent Assignee: ARMSTRONG WORLD IND INC (ARMS )

Inventor: ECKERT D C; GEORGE J R; LILLEY G L; SENSENIG D L; TSHUDY J A

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
US 4654244	A	19870331	US 84635145	A	19840727	198715 B
US 34357	E	19930824	US 81335190	A	19811228	199335
			US 82400437	A	19820726	

US 83508884	A	19830629
US 84635145	A	19840727
US 90541133	A	19900620

Priority Applications (No Type Date): US 84635145 A 19840727; US 81335190 A 19811228; US 82400437 A 19820726; US 83508884 A 19830629; US 90541133 A 19900620

# Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
US 4654244	A		39		
US 34357	E		40	B32B-003/14	CIP of application US 81335190 CIP of application US 82400437 CIP of application US 83508884 Reissue of patent US 4654244

## Abstract (Basic): US 4654244 A

Resilient loose-lay floor structure is provided which is suitable for use on unstable subfloor. A target critical buckle strain greater than the expected dimensional change of the target subfloor and an approximate basis wt. of 2-10 lbs. per sq.yd. are selected for the floor structure and a contour curve of the selected critical buckle strain for the selected basis wt. is plotted by varying bending stiffness values from 0-9 inch-lbs. and relaxed compressive stiffness values from 0-10,000 lbs. per inch width. From the contour curve, a range of permissible values can be determined and a matrix material and at least two layers of reinforcing material selected such that the sum of relaxed compressive stiffness values of the materials lies in a permitted range, the sum of the relaxed compressive stiffness values for the reinforcing materials not being less than those of the matrix material.

From the contour curve again, the bending stiffness value applicable to the sum of relaxed compressive stiffness values for the materials is determined and the layers of reinforcing material (R1,R2) disposed in the matrix material such that the measured bending stiffness of the resultant floor structure corresponds, at least one reinforcing layer being above and at least one reinforcing layer being below the neutral bending plane so that the critical buckle strain of the structure is equivalent to that targeted and greater than that expected to be caused by subfloor movement.

USE/ADVANTAGE - Loose lay floor covering is designed not to curl or dome or shrink or grow with time under the influence of environmental changes and to stay in place under the influence of rolling loads while withstanding or accommodating the movement of subfloors without buckling. Covering is esp. suitable for unstable particle board floors.

Derwent Class: A32; A93; P73

International Patent Class (Main): B32B-003/14

?s pn=ep 379100

S29 1 PN=EP 379100

?t 29/7

29/7/1

DIALOG(R) File 351:Derwent WPI

(c) 2000 Derwent Info Ltd. All rts. reserv.

008338224

WPI Acc No: 1990-225225/199030

Fire-resistant backing strip for bitumen roofing strips, etc. - comprises glass fibre and synthetic fibre mats, stitched together and stabilised with polymer-free, low formaldehyde MF precondensate

Patent Assignee: HOECHST AG (FARH )

Inventor: ADAM W; HEIDEL P

Number of Countries: 018 Number of Patents: 012

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
DE 3901152	A	19900719	DE 3901152	A	19890117	199030 B
EP 379100	A	19900725	EP 90100667	A	19900113	199030
AU 9047967	A	19900726				199038
NO 9000231	A	19900813				199038
CA 2007882	A	19900717				199040
JP 2233240	A	19900914	JP 908083	A	19900117	199043
FI 9000214	A	19900718				199045
ZA 9000284	A	19901128	ZA 90284	A	19900116	199101
US 5171629	A	19921215	US 90464996	A	19900116	199301
NO 173515	B	19930913	NO 90231	A	19900116	199342
EP 379100	B1	19950510	EP 90100667	A	19900113	199523
DE 59009035	G	19950614	DE 509035	A	19900113	199529
			EP 90100667	A	19900113	

Priority Applications (No Type Date): DE 3901152 A 19890117

Cited Patents: DE 3625443; EP 176848; EP 176849; EP 281921; US 4404250; US 4425399; US 4430380; US 4609709

#### Patent Details:

Patent No	Kind	Lan Pg	Main IPC	Filing Notes
EP 379100	A			

Designated States (Regional): AT BE CH DE FR GB IT LI NL SE

US 5171629 A 3 B32B-017/06

NO 173515 B D04H-001/48 Previous Publ. patent NO 9000231

EP 379100 B1 G 6 D04H-001/64

Designated States (Regional): AT CH DE LI SE

DE 59009035 G D04H-001/64 Based on patent EP 379100

#### Abstract (Basic): DE 3901152 A

Backing strip (I) of flat fibrous material consists of a glass fibre mat (A) and a synthetic fibre mat (B), stitched together and stabilised with a polymer-free, low-formaldehyde melamine-formaldehyde (MP) precondensate (II). (I) is produced by stitching (A) (opt. pre-stabilised) and (B) together and impregnating the 2-layer structure with a mainly aq. soln. of (II) contg. 0.5-5 wt.% of a normal hardener, squeezing out resin to obtain a resin uptake of 5-40 wt.% and then curing at elevated temp.

More specifically, (B) is a polyester fibre mat pref. a spun bond, (II) has M:F mol. ratio (1:1.0)-(1:3.5), (II) is partly etherated and/or (pref. or) sulphamate-modified, (II) is partly etherated with lower alcohols, (II) has 0.2-0.85 alkane-ether gps./mol. (F), M:F mol. ratio (1:2)-(1:3) and 0.5-0.8 mol. methyl ether gps./mol. (F), or (II) contains 20 wt.% sulphamate (calculated as Na sulphamate) w.r.t. solid resin, pref. 5-15 wt.% Na sulphamate and M:F mol. ratio is (1:1-2)-(1:2).

USE/ADVANTAGE - (I) is useful as a substrate for the prodn. of bituminised roofing and sealing strips (claimed). (I) has high mechanical stability even at high temp. (e.g. 180 deg.C), it can be modified with large amts. of fire retardants to give flexible roofing strips etc. with very good fire resistance (prior-art fire-resistant materials have inadequate flexibility), tear strength is 25% higher than that of strips stabilised with polyacrylate binders.

Dwg.0/0

#### Abstract (Equivalent): EP 379100 B

A carrier web of a sheet-like fibre material composed of a glass fibre mat and a mat of synthetic fibres which are needled to one another and end-consolidated with a polymer-free melamine-formaldehyde precondensate which has a molar ratio of melamine to formaldehyde of 1:1.0 to 1:3.5.

Dwg.0/0

#### Abstract (Equivalent): US 5171629 A

Sheet-like, fibrous carrier web comprises (i) a glass fibre mat, and (ii) a synthetic fibrous mat, (i) and (ii) are needled together and consolidated with a polymer-free melamine-formaldehyde precondensate

having a low content of free formaldehyde and a molar ratio of  
 melamine:formaldehyde of 1:1.0-1:3.5 and is sulphamate-modified and  
 opt. partly etherified. Pref. (11) is a spun-bonded material.  
 Precipitate is partly etherified with a lower alcohol contg. 0.6-0.8  
 mol. methyl ether gps. per mol. of formaldehyde. USE/ADVANTAGE - Used  
 for bituminous roofing and sealing web. (Dwg. 0/0)  
 Derwent Class: A21; A23; A93; P04; P63; P73; Q43; Q45  
 International Patent Class (Main): B32B-017/06; D04H-001/48;  
 International Patent Class (Additional): B27N-009/00; B32B-005/06;  
 D04H-001/42; D04H-005/02; D06M-017/00; D06N-005/00;  
 D04H-001/42; D04H-005/02; B32B-027/00; B32B-031/14;  
 C08G-012/00; D06N-007/00;  
 E04D-005/02; E04D-005/10  
 map apply temp s29

1 Select Statement(s), 1 Search Term(s)  
 Serial#TD658

Exeuting TD658  
 S30 1 AN=DE 3901152  
 ?s s30 not s29  
 S31 1 S30  
 1 S29  
 0 S30 NOT S29  
 ?save temp  
 Temp SearchSave "TD659" stored  
 ?s ande 927367  
 S32 0 AN=DE 927367  
 ?logoff

27nov00 12:29:34 User034901 Session D10044.2

### Status: signed off. (6 minutes)